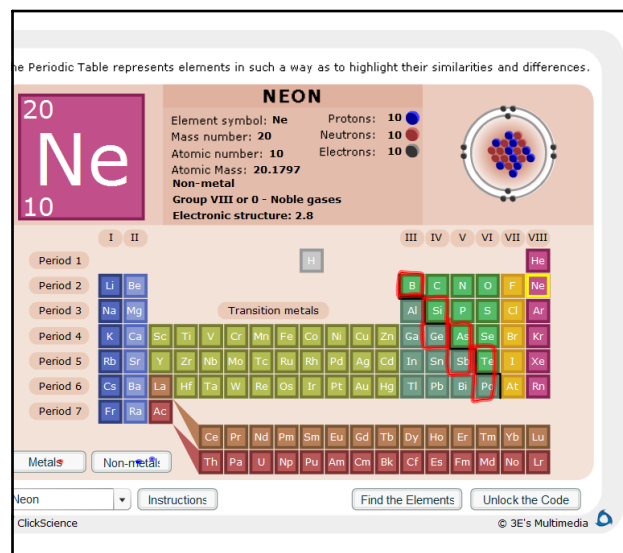


5.5 Periodic Table

In general, the metals are found to the left of the "staircase" and nonmetals to the right.

Property	Metals	Nonmetals
lustre	shiny	dull
malleability	malleable	brittle
conductivity (heat/elec.)	good conductors	insulators
reaction with acid	mostly yes	no
State	all solids except Hg	gases, solids, liquid (Br)

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Metalloids are found along the staircase (B, Si, Ge, As, Sb, Te, Po). They have some metallic and some non-metallic properties.
Ex. Si, silicon, is brittle, shiny, and a semi-conductor.

Feb 8-2:41 PM

Chemical Families

Alkali metals (Group 1)

- 1 outer (valence) electron
- form +1 ions
- highly reactive
- soft, shiny

Alkaline Earth Metals (Group 2)

- 2 outer e's
- form +2 ions
- reactive

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Halogens (Group 17)

- 7 outer e's
- form -1 ions
- highly reactive

Noble gases (Group 18)

- full outer levels
- don't form ions
- unreactive

Xe, Kr, Ar, Ne, He

Feb 8-2:51 PM